MODIS sensor Working Group (MsWG) Meeting Summary Nov. 5, 2008

Attendance: Gary Toller, Bill Barnes, Aisheng Wu, Junqiang Sun, Gerhard Meister, James Kuyper, Chris Moeller, Jack Xiong, Brian Wenny

---

Scheduled Agenda

Item 1: Recent L1B LUT delivery

- Terra forward update – 5.0.40.12 (10/24/08) – m1 & RVS

Item 2: Instrument status

- Terra and Aqua MODIS are in nominal operations.
- Minor Terra non-recoverable data loss on 2008/306 (11/01) at 07:37:29 due to FOT error & SSR buffer overwrite. Resulting loss was minimal, less than a minute.

Item 3: MCST recent activities

- Follow-up from earlier MsWG on the SV DN =0 issue cancelled for Collection 6 consideration.
    - Currently the L1B code flags data for instances of average SV DN < 0
    - One known case (several granules from 2001/269) exists of average SV DN =0 (Terra B27 D8) with other sector DN normal, thus producing 'calibrated' L1B data. MCST checked the frequency of this occurrence by testing a random sample of 20 OBC granules per day (as available locally in the MCST archive) over the lifetime of both MODIS instruments. The several cases with instances of SV DN = 0 (for any band, detector, scan, frame) were either found to be during periods of known instrument anomalies or had DN = 0 for all sectors, which would be flagged by the L1B code as not calibrated.
    - The average SV DN =0 situation appears to occur very infrequently so the consensus of those present is that we will not make a L1B code change at this time for collection 6.
- Aqua CFPA Cooler Margin Loss
    - This issue has been raised as a future concern at prior MODIS Science Team Meetings. The ability to maintain the CFPA temperatures at the control point of 83K has slowly deteriorated over time due to loss of radiative cooler margin. Currently an oscillation of ~0.1K during the dayside of the orbit is observed for both the SMIR and LWIR FPA. As calibration is scan-by-scan, the impacts are expected to be small. Options to address the issue are 1) do nothing, 2) perform outgas – requires HQ approval and there are risks inherent in turning off the instrument, or 3) set CFPA control to 85K.
    - MCST is compiling an assessment of the impacts of setting the CFPA to 85K and will report on findings at future MsWG.

Item 4: Around the Table

- None

Next Meeting: ~November 19, 2008

Compiled by B Wenny